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# NOTICE OF ALLOWANCE AND FEE(S) DUE

25944

7590

03/07/2008

OLIFF & BERRIDGE, PLC P.O. BOX 320850 ALEXANDRIA, VA 22320-4850 EXAMINER

LOUIE, WAI SING

ART UNIT PAPER NUMBER

2814

DATE MAILED: 03/07/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539.079	06/15/2005	Junichi Shimada	123989	9057

TITLE OF INVENTION: LED ILLUMINATION SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/09/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

## Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

appropriate. All further correspondence including the Patent, advance indicated unless corrected below or directed otherwise in Block 1, b maintenance fee notifications.  CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)  25944 7590 03/07/2008  OLIFF & BERRIDGE, PLC P.O. BOX 320850  ALEXANDRIA, VA 22320-4850			Not Fee pap	te: A certificate of n (s) Transmittal. This ers. Each additional	nailing can only be used f	or domestic mailings of the for any other accompanying ent or formal drawing, must
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						(Depositor's name)
			_			(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,079 TITLE OF INVENTION	06/15/2005 : LED ILLUMINATION	N SYSTEM	Junichi Shimada		123989	9057
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nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/09/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS	]		
LOUIE, W	VAI SING	2814	257-625000	_		
<ol> <li>Change of correspondence address or indication of "Fee Address" (3' CFR 1.363).</li> <li>Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required.</li> <li>ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED COMMENTED COMMENTS.</li> </ol>			registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.			
PLEASE NOTE: Unl recordation as set forti (A) NAME OF ASSIC	h in 37 CFR 3.11. Comp GNEE	oletion of this form is NO	T a substitute for filing an  (B) RESIDENCE: (CITY	assignment. Y and STATE OR CO	DUNTRY)	roup entity  Government
4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			A check is enclosed.  Payment by credit car	rd. Form PTO-2038	e the required fee(s), any d	
NOTE: The Issue Fee and	s SMALL ENTITY statu	us. See 37 CFR 1.27.	d from anyone other than		LENTITY status. See 37 C	CFR 1.27(g)(2). he assignee or other party in
interest as shown by the i	records of the United Sta	tes Patent and Trademark	Office.			
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This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this but Virginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th O NOT SEND FEES OR	on is required to obtain or 1.14. This collection is es depending upon the indi e Chief Information Offic COMPLETED FORMS T	retain a benefit by th timated to take 12 m vidual case. Any con er, U.S. Patent and T O THIS ADDRESS.	e public which is to file (an inutes to complete, includi nments on the amount of ti rademark Office, U.S. Dep SEND TO: Commissioner	d by the USPTO to process) ng gathering, preparing, and time you require to complete partment of Commerce, P.O. for Patents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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10/539,079 06/15/2005		Junichi Shimada	123989	9057
25944 75	590 03/07/2008		EXAM	INER
OLIFF & BERR	IDGE, PLC	LOUIE, WAI SING		
P.O. BOX 320850 ALEXANDRIA, VA 22320-4850			ART UNIT	PAPER NUMBER
			2814	
			DATE MAILED: 03/07/2008	

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 82 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 82 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/539,079	SHIMADA ET AL.
Notice of Allowability	Examiner	Art Unit
	   Wai-Sing Louie	2814
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	ears on the cover sheet wi (OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s	n this application. If not included unication will be mailed in due course. <b>THIS</b>
1. This communication is responsive to <u>12/6/07</u> .		
2. ☑ The allowed claim(s) is/are <u>7-11 and 16-19</u> .		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> </ul>	e been received.	
3. Copies of the certified copies of the priority do	cuments have been receive	d in this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.   A SUBSTITUTE OATH OR DECLARATION must be subm	MENT of this application.  itted. Note the attached EXA	AMINER'S AMENDMENT or NOTICE OF
INFORMAL PATENT APPLICATION (PTO-152) which give	es reason(s) why the oath or	declaration is deficient.
5. CORRECTED DRAWINGS ( as "replacement sheets") mus		
(a) including changes required by the Notice of Draftspers	-	v ( PTO-948) attached
1)  hereto or 2)  to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 □ Notice of In	formal Patent Application
<ol> <li>Induce of References Cited (PTO-092)</li> <li>Induce of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>		ummary (PTO-413),
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./	Mail Date Amendment/Comment
Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allowance
of Biological Material	 9.	

### **DETAILED ACTION**

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Obert Chu's associate on 2/14/08.

The application has been amended as follows:

### In the claims

Cancel claims 1-6 and 12-15.

## Allowable Subject Matter

Applicant has amended the independent claims 7 and 19 to overcome the prior art rejection of the previous office action. Claims 7-11 and 16-19 are allowed. The following is an examiner's statement of reasons for allowance:

Reference Harrah et al. (US 6,498,355), Marchi et al. (US Pub. 2003/0178627), and Frutschy et al. (US 7,173,329) do not disclose:

 A heat conducting layer provided on the substrate made of insulating material and connecting the module-thermally-contacting portion and in a predetermined position.

Page 3

- A conductive layer on the heat conducting layer having a predetermined pattern,
   and connecting the LED chip and power supply terminal.
- A connector part provided in an end portion of the substrate and having a modulethermally-contacting portion for discharge heat from the substrate and the heat conducting layer and a power supply terminal.

Therefore, the above references do not disclose the claimed invention of present application and claims 7-11 and 16-19 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wai-Sing Louie whose telephone number is 571-272-1709. The examiner can normally be reached on 7:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on 571-272-1705. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2814

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Wai-Sing Louie/ Primary Examiner, Art Unit 2814

Wsl February 8, 2008.